

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 56-122321

(43)Date of publication of application : 25.09.1981

(51)Int.Cl.

C07C 27/00
C07C 59/125
C07C 69/675
C07C 69/708

(21)Application number : 55-025010

(71)Applicant : MITSUBISHI CHEM IND LTD

(22)Date of filing : 29.02.1980

(72)Inventor : WADA HIROSUKE
BABA AKIO
WADA NOBORU

(54) PREPARATION OF GLYCOLIC ETHER AND ESTER

(57)Abstract:

PURPOSE: To obtain the titled compound useful as an industrial intermediate, e.g. ethylene glycol or cellosolve, at a high reaction rate, by reacting formaldehyde with a formic ester and CO in the presence of a strong acidic catalyst.

CONSTITUTION: Formaldehyde, e.g. gaseous formaldehyde, trioxane or paraformaldehyde and a formic ester of a 1W10C alkanol are injected into an acidic catalyst, e.g. a strong acid such as phosphomolybdic acid, concentrated sulfuric acid or p- toluenesulfonic acid, having an acid strength $pK_a \leq 2$ and if necessary water or a solvent at a CO partial pressure of 20W150kg/cm² and reacted at 50W250°C to give a glycolic ester and a glycolic acid ether. The amount of the formic ester is 0.1W5mol based on one mol formaldehyde, and if desired the ester is usable in excess as a solvent. The amount of the strong acid is 0.1W1,000meq based on one mol formaldehyde.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]